What is Claimed is:

- 1. In a process for producing L-amino acids by the fermentation of bacteria of the coryneform genus, the improvement comprising enhancing the activity of malate:quinone oxidoreductase in said bacteria.
- 2. The improvement of claim 1, wherein said activity of malate:quinone oxidoreductase is enhanced by over-expressing the gene encoding this enzyme.
- 3. The improvement of claim 1, wherein said coryneform bacteria have been treated to enhance the activity of one or more additional enzymes of a synthetic pathway for an L-amino acid.
- 4. The improvement of claim 1, wherein said coryneform bacteria have been treated to eliminate one or more metabolic pathways that reduce the formation of an L-amino acid.
- 5. The improvement of any one of claims 1-4, wherein wherein said activity of malate:quinone oxidoreductase is enhanced by transforming said coryneform bacteria with a plasmid vector comprising a nucleotide sequence coding for said malate:quinone oxidoreductase.
- 6. The improvement according to claim 5, wherein said plasmid vector is pRM17 deposited in Corynebacterium glutamicum, under accession number DSM12711.
- 7. The improvement of any one of claims 1-4, wherein said process is for the production of an amino acid selected from the group consisting of: L-aspartic acid, L-asparagine, L-homoserine, L-threonine, L-isoleucine and L-methionine.
- 30 8. The improvement of claim 7, wherein said process is for the production of L-lysine.

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- 9. The improvement of claim 7, wherein the gene coding for dihydrodipicolinate synthase is over-expressed in said bacteria.
- 10. The improvement of claim 7, wherein a DNA fragment mediating S-(2-aminoethyl)-cysteine resistance is amplified in said bacteria.
- 11. A process for producing an L-amino acid by the fermentation of bacteria of the coryneform genus comprising:
 - a) amplifying the malate:quinone oxidoreductase gene in a bacteria producing said L-amino acid;
 - b) fermenting the bacteria produced in step a);
 - c) isolating said L-amino acid made in the fermentation of step b).
- 12. The process of claim 11, further comprising treating said bacteria to enhance the activity of one or more additional genes of a synthetic pathway for an L-amino acid.
- 13. The process improvement of claim 11, wherein said bacteria are transformed with plasmid vector pRM17, deposited in Corynebacterium glutamicum, under accession number DSM12711.
- 14. The process claim 11, wherein said process is for the production of an amino acid selected from the group consisting of: L-aspartic acid, L-asparagine, L-homoserine, L-threonine, L-isoleucine and L-methionine.
- 15. The process of claim 14, wherein said process is for the production of L-lysine.

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